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(54) **CONDOM**

(57) Abstract:

PURPOSE: To develop a spermatocidal property and to enhance contraceptive effect without losing a use feeling, by mixing a bactericidal ionic metal such as copper or silver with an elastic material such as rubber being a condom forming material and forming the resulting mixture into a condom.

CONSTITUTION: A metal discharging a bactericidal ion such as copper, silver or mercury, an alloy containing the bactericidal ionic metal or, according to circumstances, both metals are added to and mixed with

an elastic material being a base material. The resulting mixture develops the sterilizing action by said metal. As the bactericidal ionic metal to be added and mixed with the rubber material molded into a condom, copper metal such as copper, a copper compound or a copper alloy is optimum from the aspect of capacity and cost. There are various materials as the rubber material being the base material to which the bactericidal ionic metal must be added to be kneaded therewith and silicone rubber being said to be not necessarily suitable for forming a contraceptive appliance from mechanical strength can be also used.

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**(54) ANTIMICROBIAL FORMED PRODUCTS AND
 THEIR PRODUCTION**

(57) Abstract:

PURPOSE: To obtain an antibacterial formed product having high washing durability as well as high antibacterial properties and abrasion resistance, by allowing a mixture of a powder of copper compound of a specific particle size with an organic polysiloxane to disperse in a thermoplastic formed product.

CONSTITUTION: A mixture of a powder of a copper compound which is solid at 25°C and 1 atm., has over 100°C decomposition point, melting point and boiling

point, respectively, and particle sizes of less than 5 microns, preferably less than 1 micron on the average, with an organopolysiloxane which has a viscosity of more than 1,000 centistokes, preferably 5,000 centistokes at 25°C is added to a thermoplastic polymer of 200°C or higher melting point, after completion of polymerization to immediately before extrusion, kneaded and extruded through orifices to give the subject formed product in which the organic polysiloxane forms lengthwise extending, island-like independent phases and has paths connecting these islands at random in traverse direction.

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